

ABSTRACT OF THE DISCLOSURE

A reflection type liquid-crystal display device has a reflection type liquid-crystal display panel, at least one illuminator, and an optical path control layer. The reflection type liquid-crystal display panel includes a liquid-crystal cell and a reflector, the liquid-crystal cell having a visual-side substrate, a back-side substrate and a liquid crystal. The visual-side substrate includes a transparent substrate, a transparent layer lower in reflective index than the transparent substrate, and a transparent electrode. The back-side substrate has an electrode, and the liquid crystal is held between the visual-side and back-side substrates so that respective electrode sides of the visual-side and back-side substrates are disposed opposite to each other. The reflector is disposed on the back-side substrate side. The illuminator is disposed on one of side surfaces of the reflection type liquid-crystal display panel. The optical path control layer has a repetitive structure of optical path changing slopes on an outer side of the visual-side substrate and being higher in refractive index than the low-refractive-index transparent layer. Each of the optical path changing slopes is inclined at an inclination angle in a range of from 35 to 48 degrees with respect to a reference plane of the visual-side substrate.